

Abstract

Systems and methods stimulate circulatory activity in a targeted body region of an individual by applying ultrasound energy. Before, during or after the 5 application of ultrasound energy, the systems and methods administer an agent to individual that results, e.g., in an angiogenic effect, or in a reduction of blood perfusion, or a chemotherapy effect. The application of ultrasound energy selectively increases blood perfusion or uptake of the agent 10 in the targeted body region.